

Customer No.: 31561
Docket No.: 13549-US-PA
Application No.: 10/711,576

AMENDMENTS

Please amend the application as indicated hereafter.

In the Claims:

Claim1. (currently amended) A plasma display panel, comprising:

- a rear substrate comprising:
 - a first substrate;
 - a plurality of address electrodes, disposed on the substrate;
 - a rib, disposed on the substrate defining a plurality of discharge spaces, each of the address electrodes disposed in one of the discharge spaces;
 - a plurality of auxiliary address electrodes disposed between the rib and the substrate, wherein the address electrodes and the auxiliary address electrodes are arranged on the first substrate alternately such that each of the address electrodes is located under one of the discharge space respectively;
 - a fluorescent material layer disposed on sidewalls of the rib and portions of the substrate corresponding to the discharge spaces covering the address electrodes;
- a front substrate disposed above the rear substrate, comprising:
 - a second substrate;

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a plurality of pairs of electrodes, disposed on the second substrate, wherein the pairs of electrodes are located between the second substrate and the rear substrate; and

discharge gas disposed in the discharge spaces.

Claim 2. (original) The plasma display panel of claim 1, further comprising a dielectric layer and a protection layer, wherein the dielectric layer is disposed on the second substrate covering the pairs of electrodes, and the protection layer is disposed on the dielectric layer.

Claim 3. (original) The plasma display panel of claim 2, wherein a material of the protection layer comprises magnesium oxide.

Claim 4. (original) The plasma display panel of claim 1, wherein the auxiliary address electrodes are grounded, floating or coupled to a positive voltage terminal.

Claim 5. (original) The plasma display panel of claim 1, wherein the rib comprises a plurality of strip patterns.

Claim 6. (original) The plasma display panel of claim 5, wherein the strip patterns parallel to each other.

Claim 7. (original) The plasma display panel of claim 1, wherein the pairs of electrodes parallel to each other, and an extended direction of the pairs of electrodes are different from an extended direction of the address electrodes.

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Claim 8. (original) The plasma display panel of claim 7, wherein the extended direction of the pairs of electrodes is orthogonal to the extended direction of the address electrodes.

Claim 9. (original) The plasma display panel of claim 1, wherein each of the pairs of electrodes comprises an X electrode and a Y electrode.

Claim 10. (original) A driving method of a plasma display panel adapted to drive the plasma display panel as claimed in claim 1, the driving method comprising:

(a) resetting the address electrodes and the pairs of electrodes, then electrically grounding the auxiliary address electrodes;

(b) applying a scanning signal to the pairs of electrodes, and inputting an address signal to the address electrodes; and

(c) electrically floating the auxiliary address electrodes or coupling the auxiliary address electrodes to a positive voltage terminal when inputting sustain signals to the address electrodes and the pairs of electrodes.

Claim 11. (original) The driving method of claim 10, after resetting the address electrodes and the pairs of electrodes, further comprising repeating the steps (a) to (c) at least once.